50

## EPITOPE SEQUENCES Simard et al. mown Atty Docket: MANNK.032A

							•								
(1) MOAEGRETEGRATEDADEPECPETEDEPEGNACEPETAGATEGREPREAGA (1) MOAEGRETEGRATEDADEPECPETEDEPEGNACERCEAGATEGREPREAGA	_	(1) MOREGNSTEGSTEDADGPEGPETPDGPEGNAGGREBAGATEGREPROAGA	(1) MOAEGNATGESTEDADGREG PGIPDEPGGNAGGEGEAGATGGREPRGAGA	(1) MOAFGNETGESTEDADERGERETPDGPGGNAGGRGEAGATGGRGPRGAGA	(1) WOARCARGESTGDADGREGPETPDGREGNAGOPGRACATISGREREACA	(1) MQAEGRGTGGSTGDADGPGGPGIPDGPGGNAGGPGEAGATGGRGPRGAGA	51 100	(51) ARASGERGGGAPRGERGGARSMINGCCRCGARGERSRITTE FRINAMPERITEM	(51) ARASGPGEGAPRGPHGEAABALNGCCREGARGPRSREDEFIXIAMPERNIPM	(51) ARASGENGGAPREBHGGAASKWONCRCGARNPUSRITIONALLINDERSPM	(51) ARASGENGGARRGENGGAASKWARCINGARRENSRITKKRINDERSPM	(51) ARASGENGGAPRGEHGGAASAXNGRCRCGAENPOSRLEQUALINEENSPM	(51) ARASCPREGARREPHEGARSKNORRCREGARRPHSRELINNRYMPERSPM	(51) ARASGENGGAPRGEHGGAASAXNORCRCGARNINSRISKINKERNPMERKIPM	(51) ARASGPRGGAPRGPHGGAASAQDGRCPCGARRPDSRLLQLHITMPFSSPM
CTAG_HUMAN NY-ESO AAD05202 - CAG-3	CAA11044 -LAGE-1a	CAA10194 - LAGE-1s	CAA11043 - LAGE-1b	CAA10196 - LAGE-1L	AAH02883 CT-2	Consensus		CTAG_HUMAN NY-ESO	AAD05202 - CAG-3	CAA11044 -LAGE-1a	CAA10194 - LAGE-1s	CAA11043 - LAGE-1b	CAA10196 - LAGE-1L	AAH02833 CT-2	Consensus

## EPITOPE SEQUENCES Simard et al. anown Atty Docket: MANNK.032A

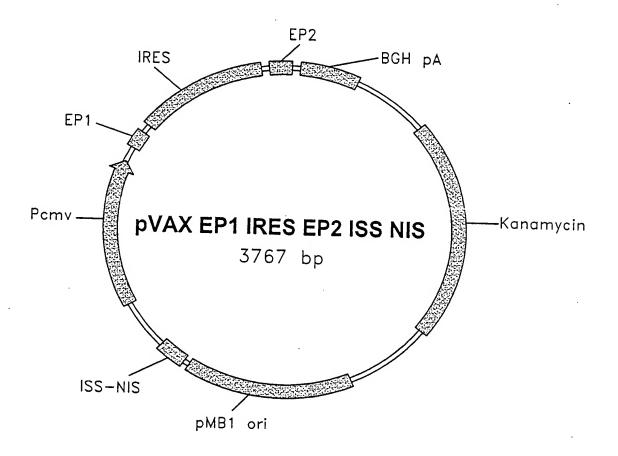
(101) EAETARRISEROPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP	(101)	(101)	(101) EARLING BUILD BOARD THE PORT OF THE TASK OF THE CAGE OF THE	(101) EABINERING BORD PERFORMENTET SONDENING ROOD REGARMEN	(101)	(101) EAELVRRILSRDAAPLPRPGAVLKDFTVSGNLLFIRLTAADHRQLQLSIS	151	(151)	(151) <b>SERVICE OF THE SERVICE OF THE PROPERTY </b>	(151)	(151)	(151)	, (151) VGWGLGEASPEGQKARDLRTPKHKVEEEEBPGTPGPPPFEGAQGDGCRGVA	(151) VGWGLGBASPEGQKARDLRTPKHKVØEØBPGTPGPPPFEGAQGDGCRGVA	(151) SCLQQLSLLMWITQCFLPVFLAQ PSGQRR
CTAG_HUMAN NY-ESO AAD05202 - CAG-3	CAA11044 -LAGE-1a	CAA10194 - LAGE-1s	CAA11043 - LAGE-1b	CAA10196 - LAGE-1L	AAH02833 CT-2	Consensus		CTAG HUMAN NY-ESO	AAD05202 - CAG-3	CAA11044 -LAGE-1a	CAA10194 - LAGE-1s	CAA11043 - LAGE-1b	CAA10196 - LAGE-1L	AAH02833 CT-2	Consensus

## EPITOPE SEQUENCES Simard et al. known Atty Docket: MANNK.032A

Appl. No.: Unknown

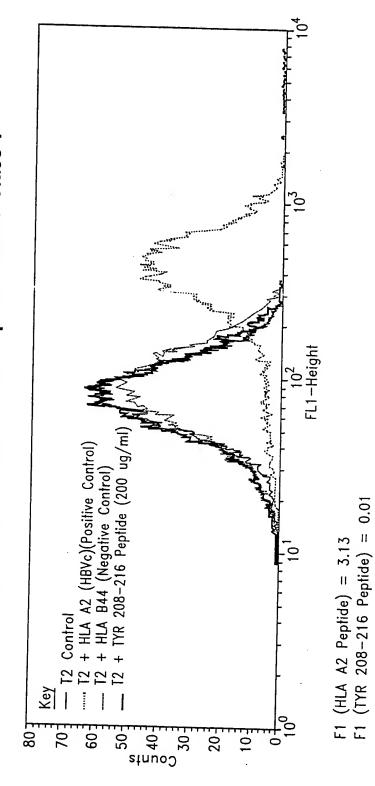
FNVMFSAPHI FNVMFSAPHI FNVMFSAPHI 201 (201) (201) (181)(181)
(181) (201)(201)CTAG\_HUMAN NY-ESO AAD05202 - CAG-3 CAA11044 -LAGE-1a CAA10194 - LAGE-1s CAA11043 - LAGE-1b CAA10196 - LAGE-1L AAH02833 CT-2 Consensus

EPITOPE SEQUENCES
Simard et al.
Appl. No.: Unknown Atty Docket: MANNK.032A

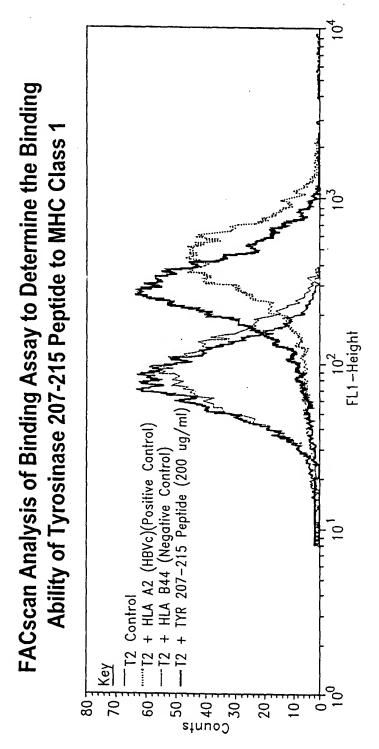


EPITOPE SEQUENCES Simard et al. Appl. No.: Unknown Atty Docket: MANNK.032A

FACscan Analysis of Binding Assay to Determine the Binding Ability of Tyrosinase 208-216 Peptide to MHC Class 1

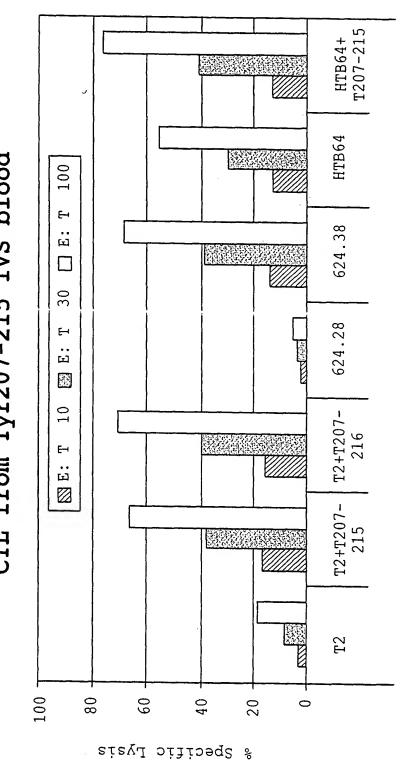


EPITOPE SEQUENCES Simard et al. Appl. No.: Unknown Atty Docket: MANNK.032A



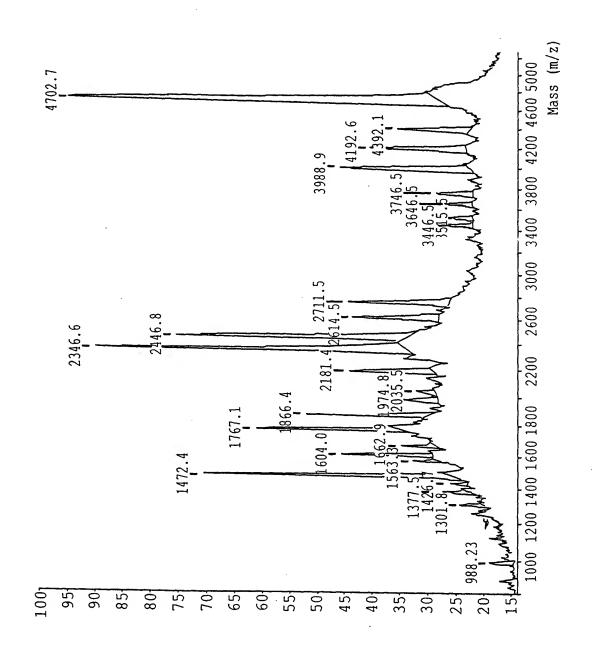
F1 (HLA A2 Peptide) = 3.13F1 (TYR 207-215 Peptide) = 2.00

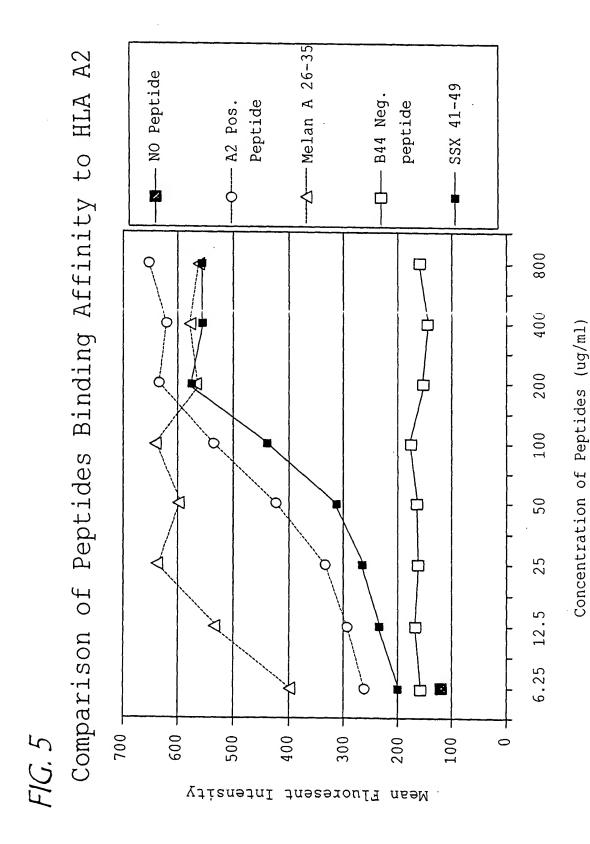
HLA A2 restricted and tyrosinase specific lysis by CTL from Tyr207-215 IVS blood



CTL from Tyr 207-215 IVS blood

EPITOPE SEQUENCES Simard et al. known Atty Docket: MANNK.032A





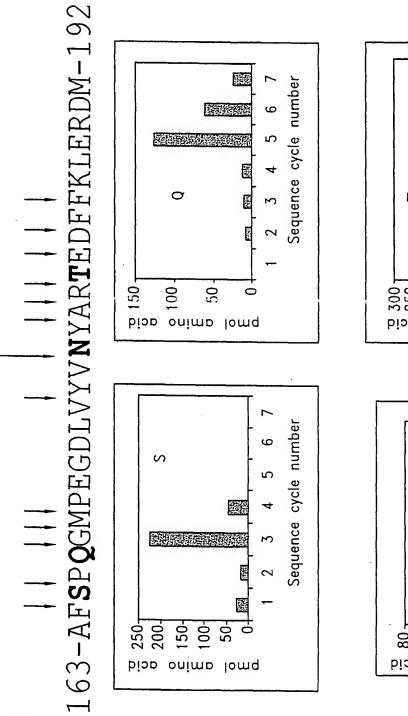
EPITOPE SEQUENCES
Simard et al.

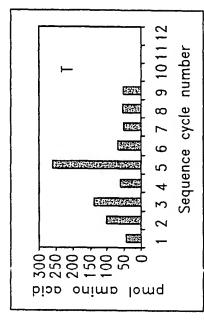
Appl. No.: Unknown Atty Docket: MANNK.032A

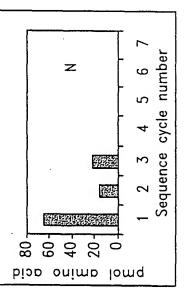
SSX241-49 specific lysis by CTL from peptide injected HHD1 mice ET 100 -CTL (SSX2 41-49) T2 -a-CTL (SSX2 41-49) T2 + SSX2 41-49 30 ET -09 20 -120 100 40. 0

% Specific Lysis

FIG. 6

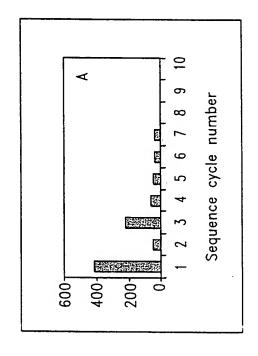


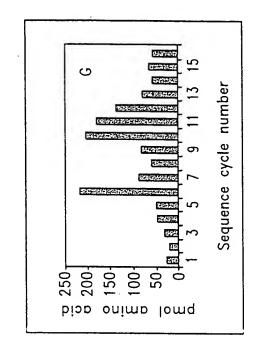


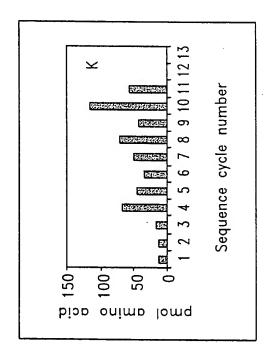


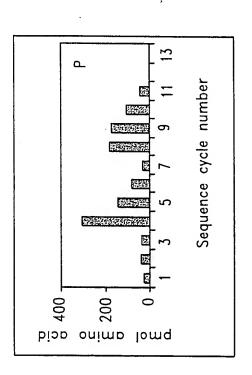
60 min by profeasome Pool sequencing of PSMA\_163-192 Digested for

EPITOPE SEQUENCES
Simard et al.





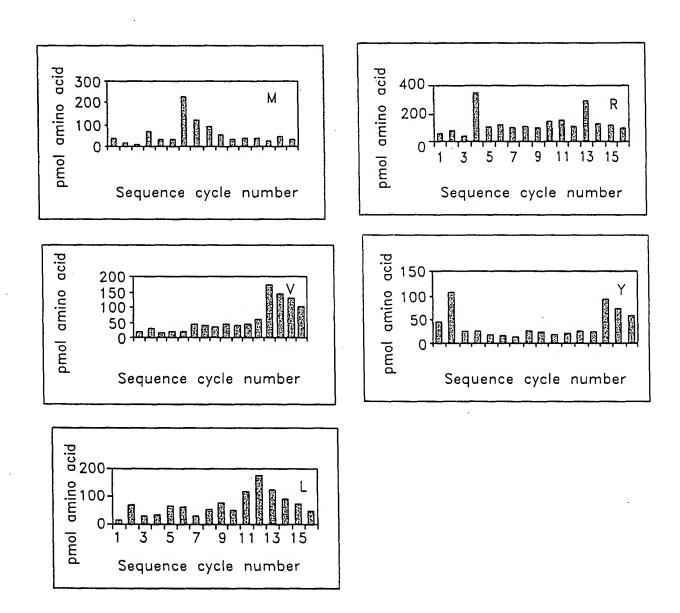




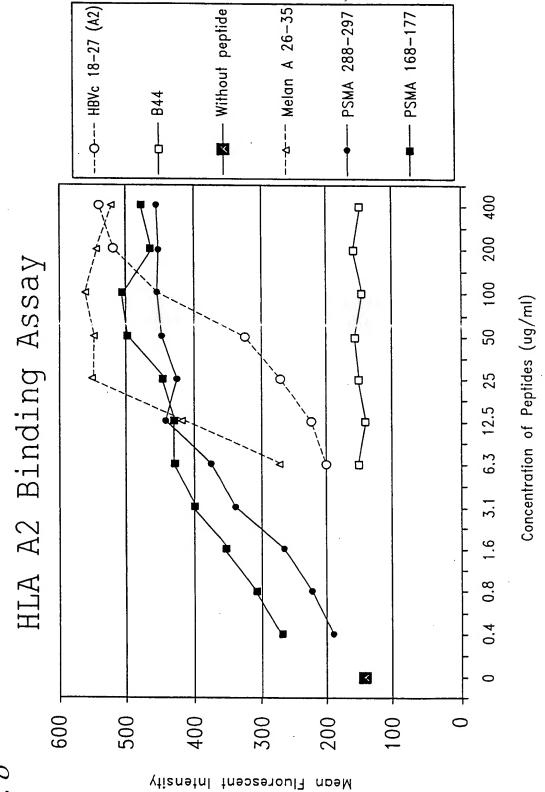
Pool sequencing of PSMA\_163-192 Digested for 60 min by proteasome

#### EPITOPE SEQUENCES Simard et al.

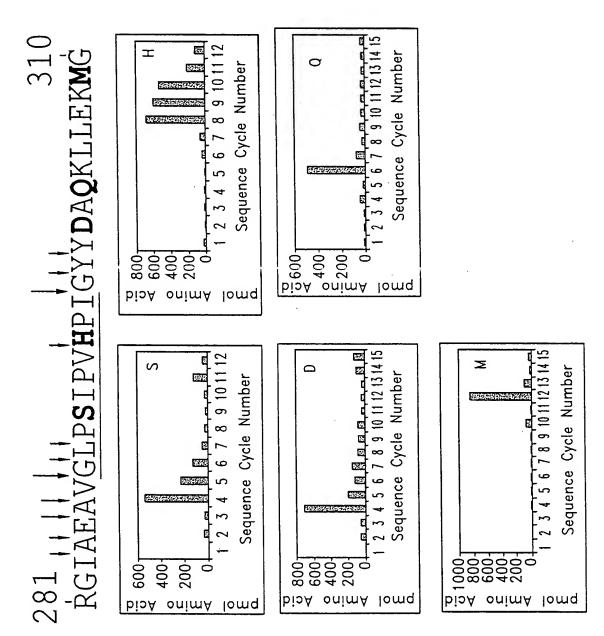
Appl. No.: Unknown



Pool sequencing of PSMA\_163-192 Digested for 60 min by proteasome

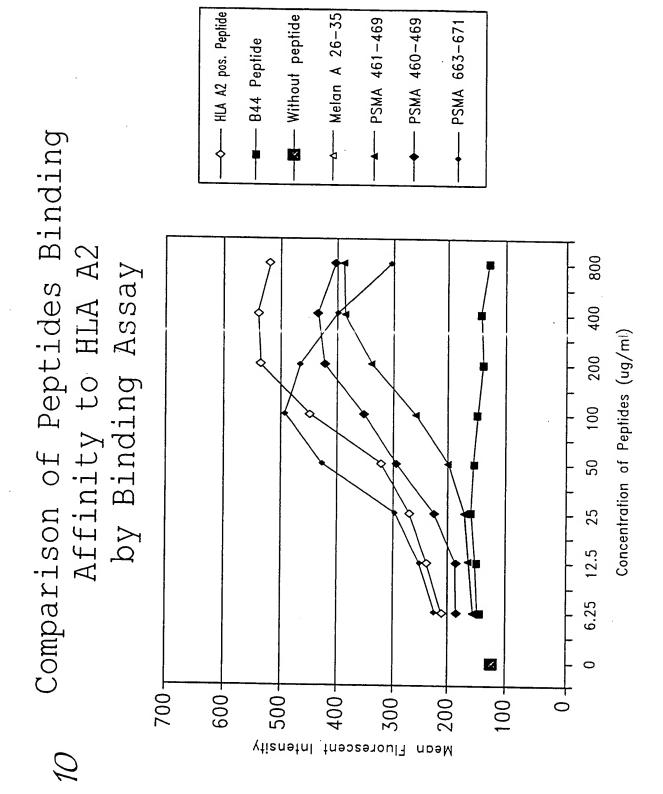


Appl. No.: Unknown Atty Docket: MANNK.032A



Pool sequencing of PSMA\_281\_310 Digested for 60 min by Proteasome

EPITOPE SEQUENCES Simard et al.

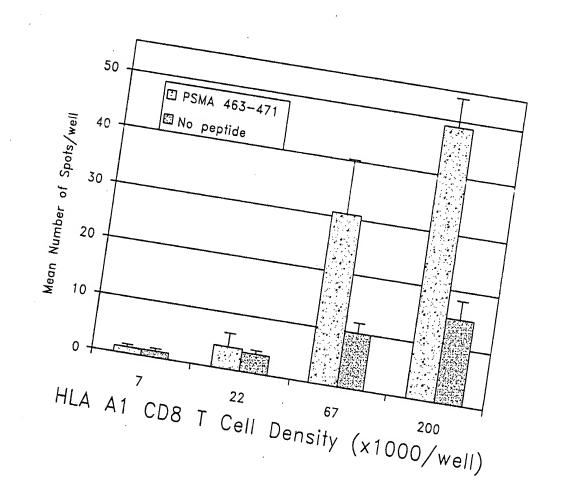


EPITOPE SEQUENCES

Simard et al.

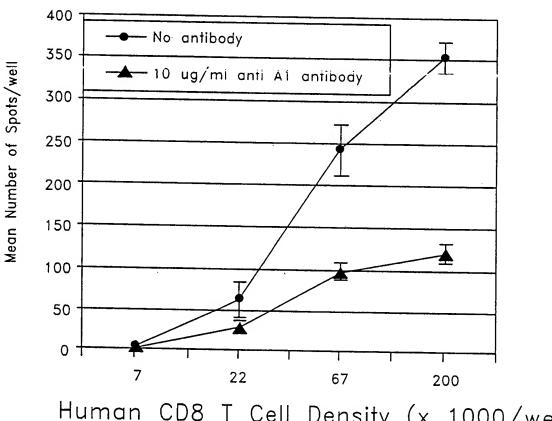
Atty Docket: MANNK.032A

# Autologous DC Present A1 Peptide to CD8 T cell



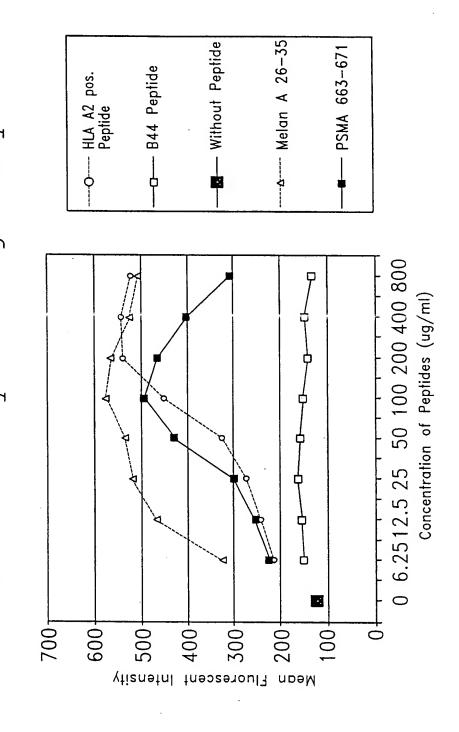
**EPITOPE SEQUENCES** Simard et al. Appl. No.: Unknown Atty Docket: MANNK.032A

### Secretion of IFNgama Was Blocked by Anti-A1 Antibody

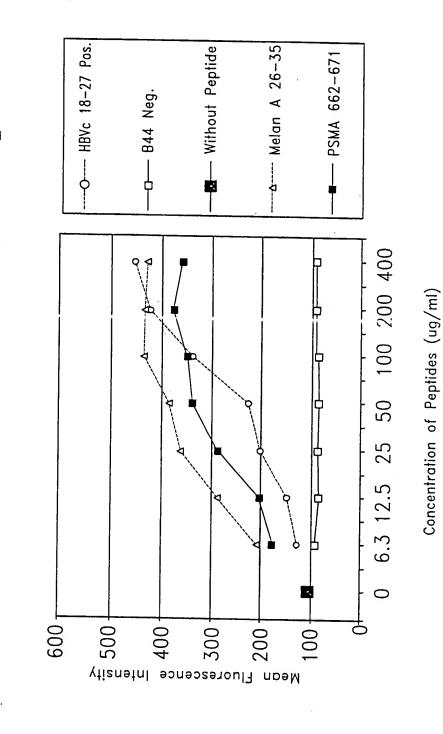


Human CD8 T Cell Density (x 1000/well)

Comparison of Peptides Binding Affinity to HLA A2 by Binding Assay

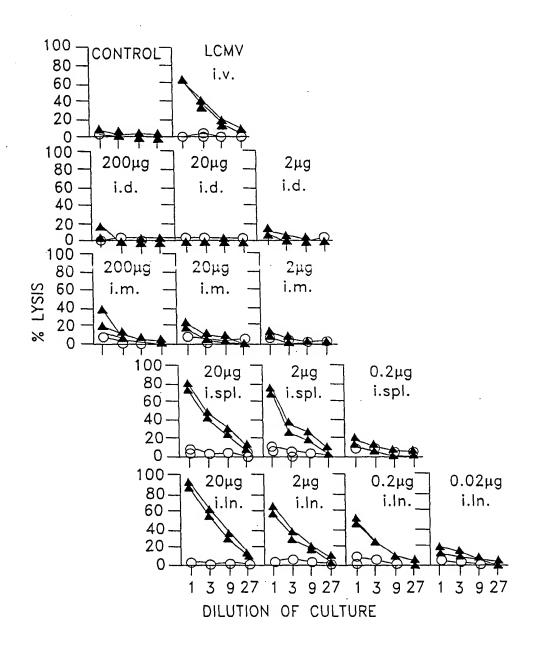


Comparison of Peptides Binding Affinity to HLA A2 by Binding Assay



#### EPITOPE SEQUENCES Simard et al.

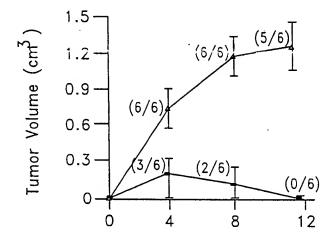
Appl. No.: Unknown Atty Docket: MANNK.032A



Graphs show lysis of unpulsed EL4 cells (open circles) and EL4 cells pulsed with gp33 peptide (solid triangles). Symbols represent individual mice and one of three similar experiments is shown.

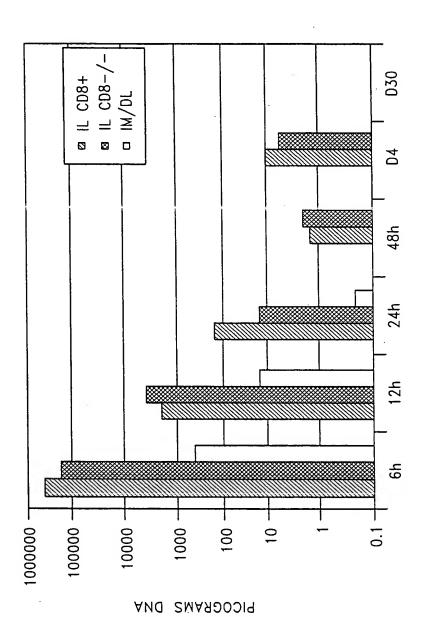
EPITOPE SEQUENCES
Simard et al.

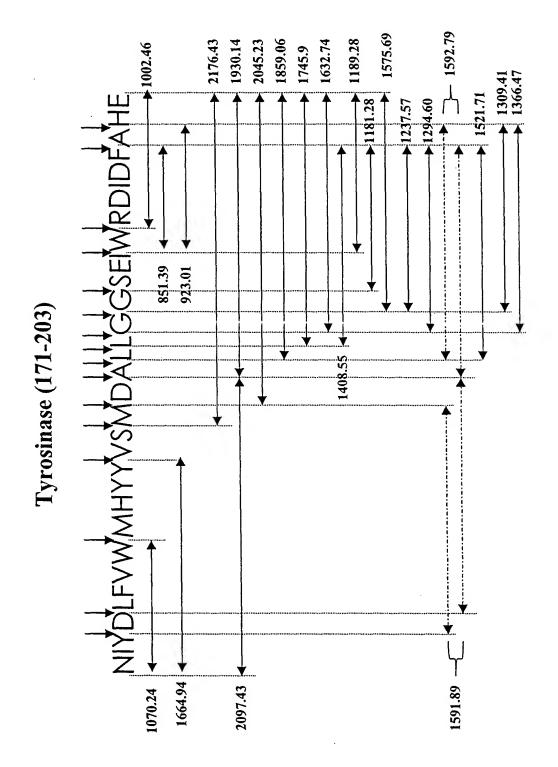
Appl. No.: Unknown Atty Docket: MANNK.032A



Days after tumor challenge

Mean tumor volumes  $\pm$  1SD are shown for mice immunized with pEFGPL33A DNA (solid circles) or control pEGFP-N3 DNA (open triangles). Numbers in brackets indicate number of mice with tumors/total number of mice in group. One of two similar experiments is shown.





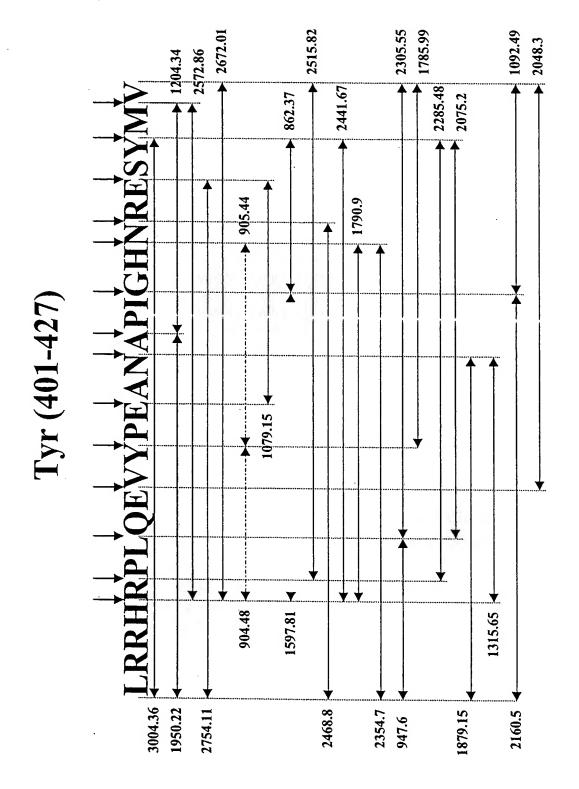
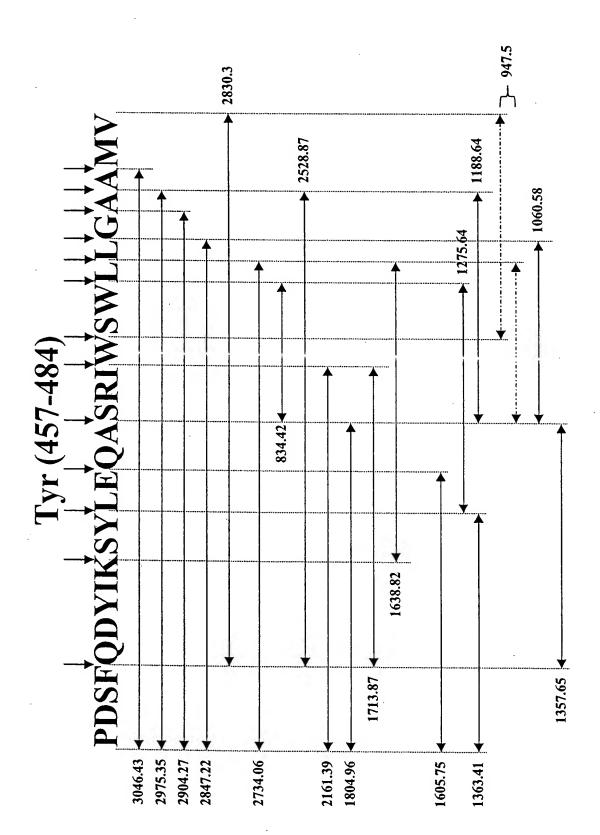


Figure 20



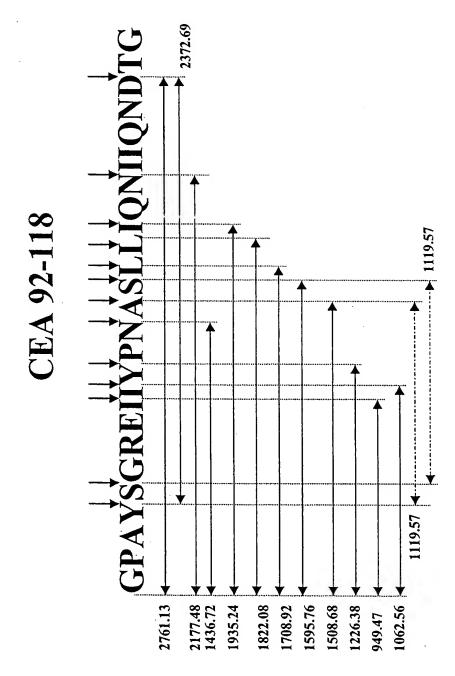
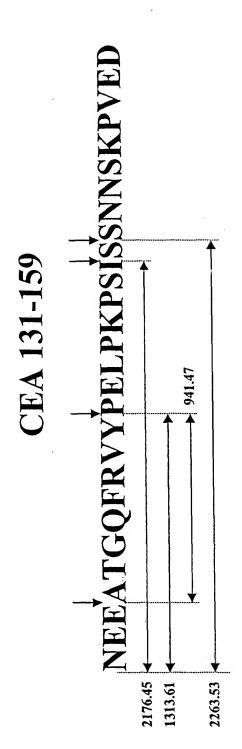
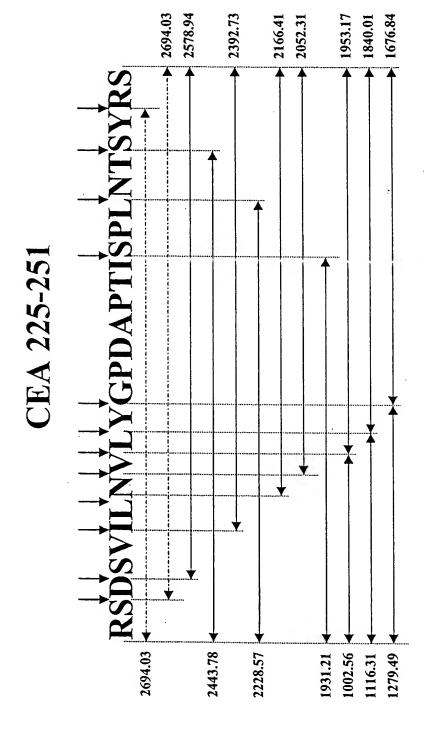
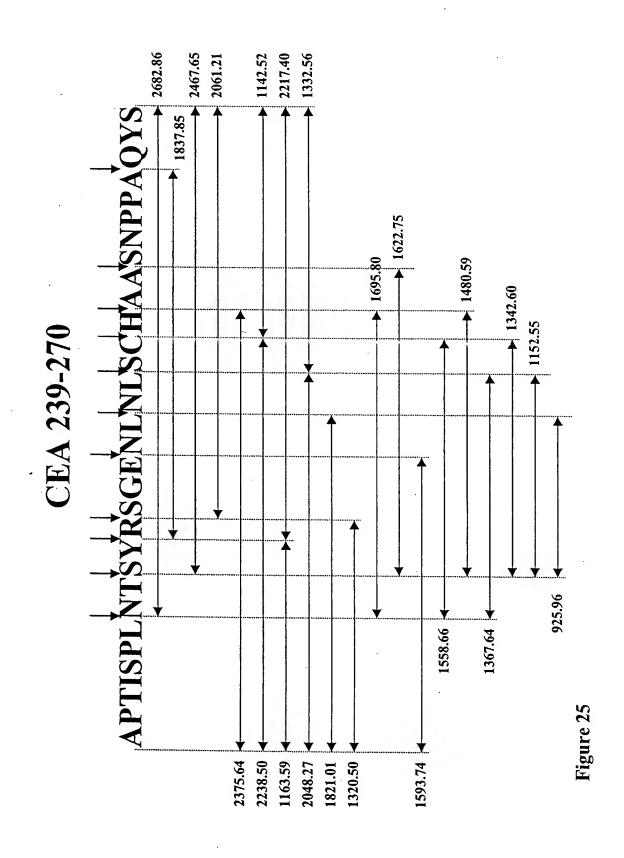
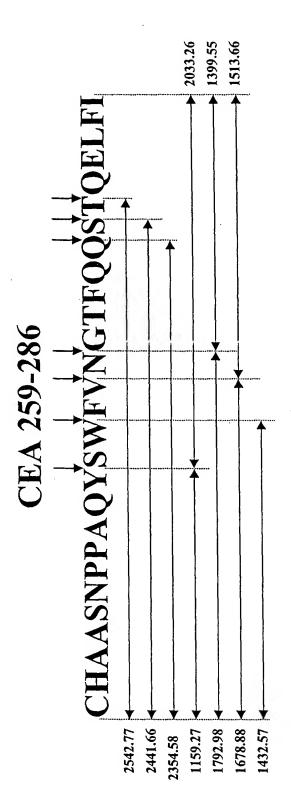


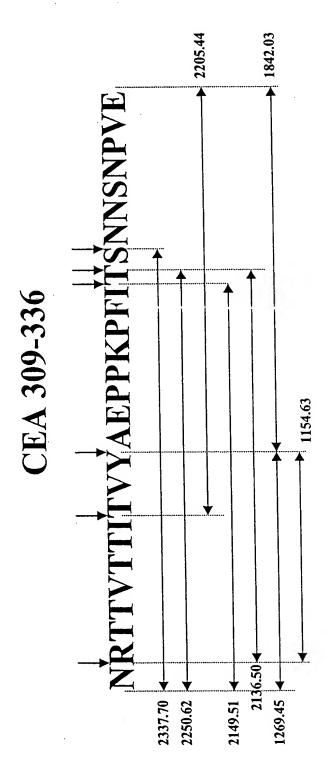
Figure 2

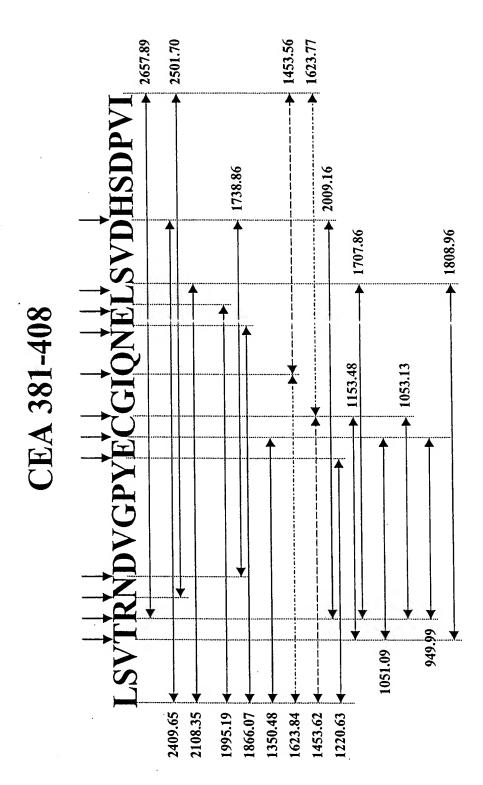


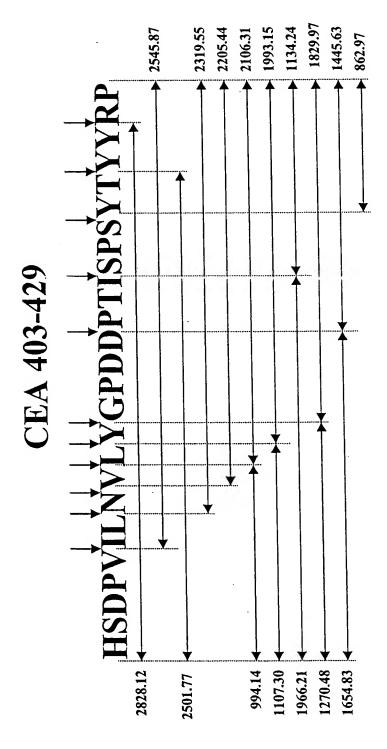












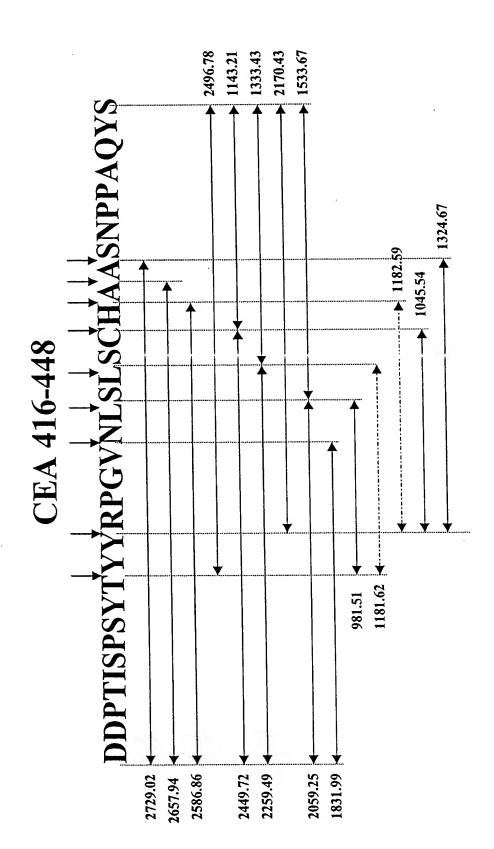
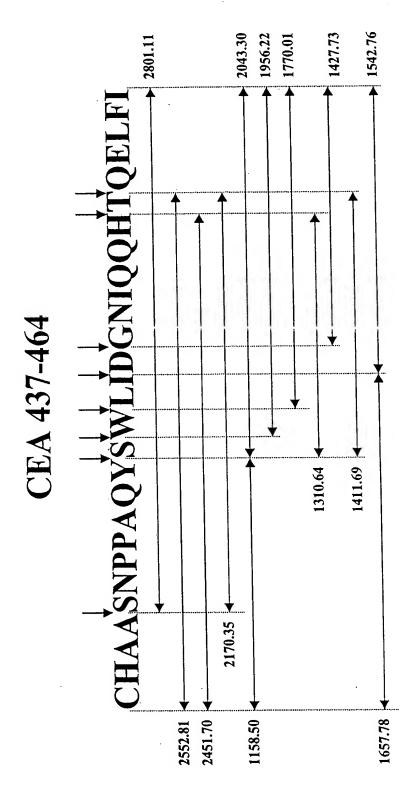
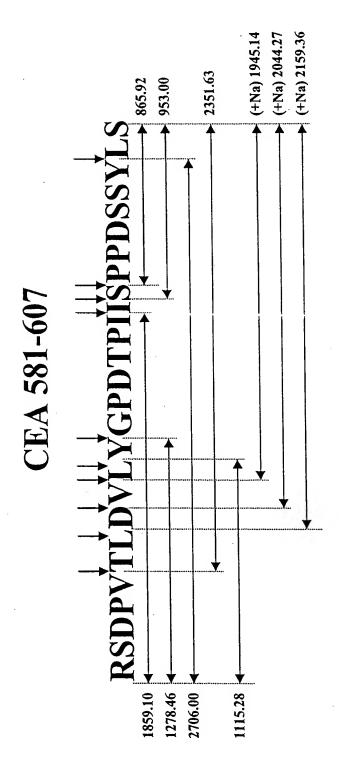
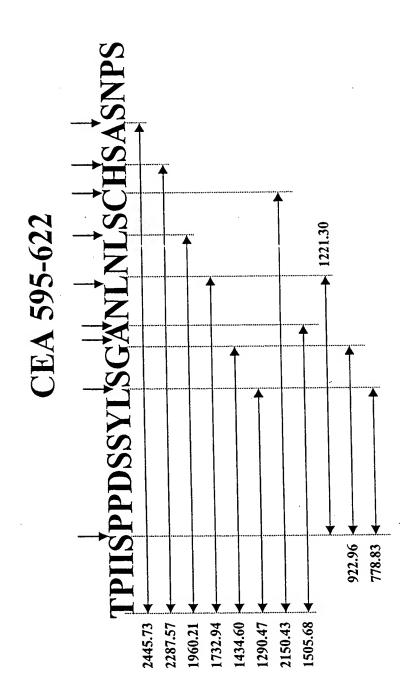
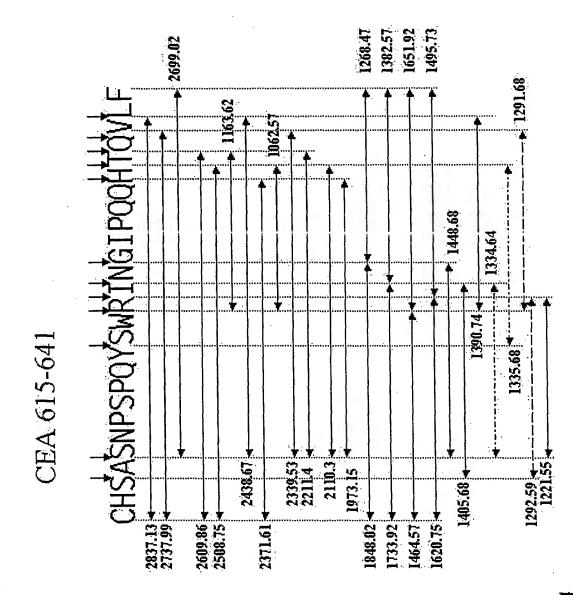


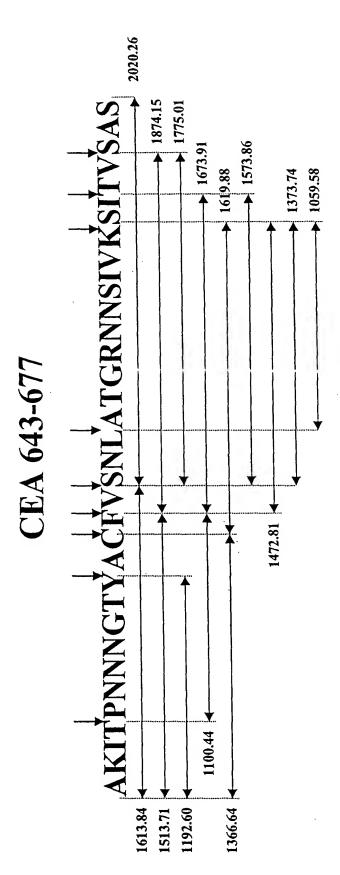
Figure 3(











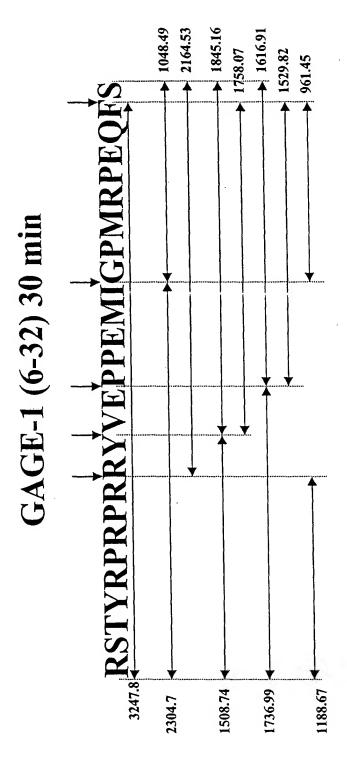
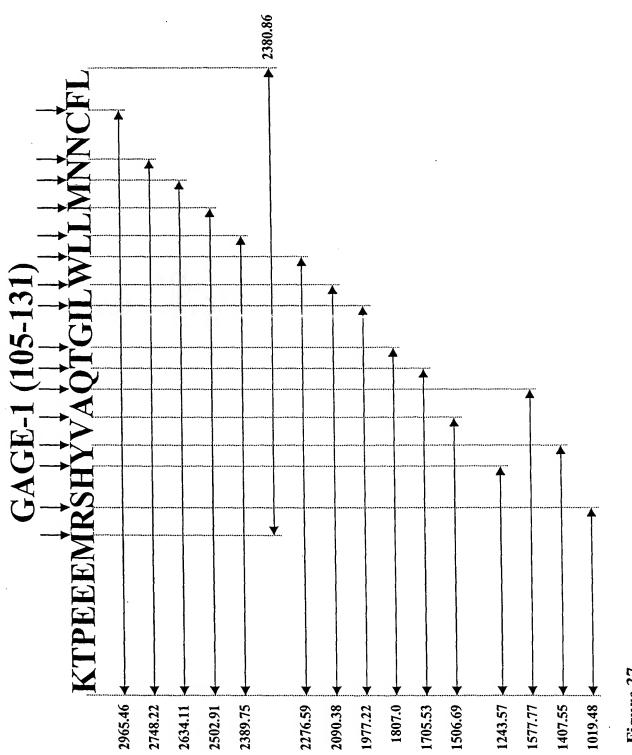
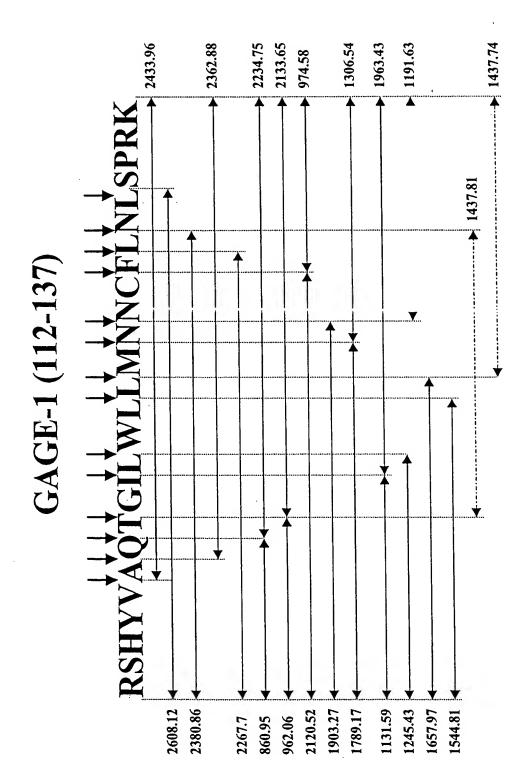
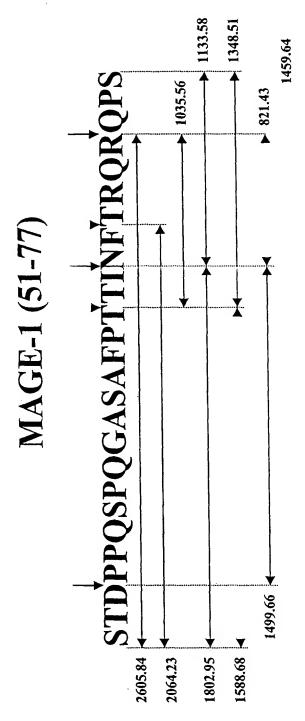


Figure 36







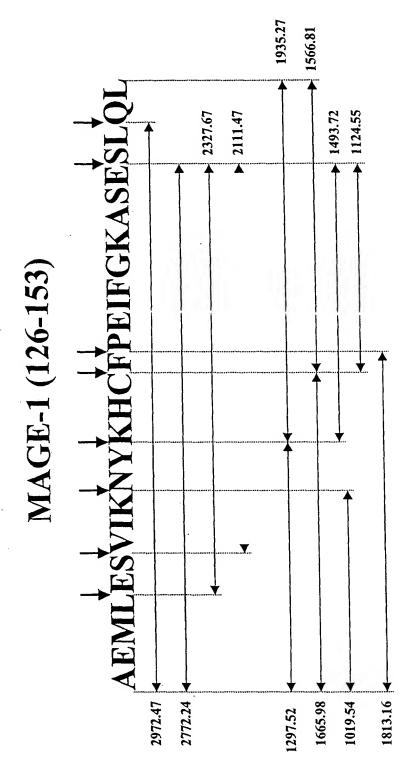
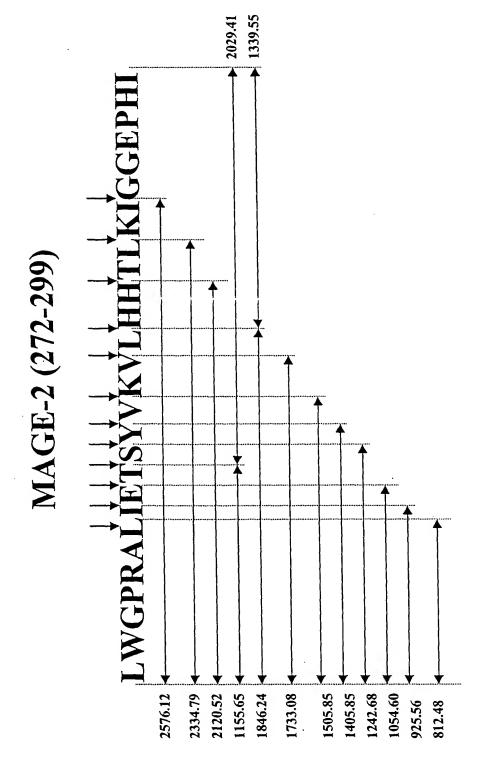
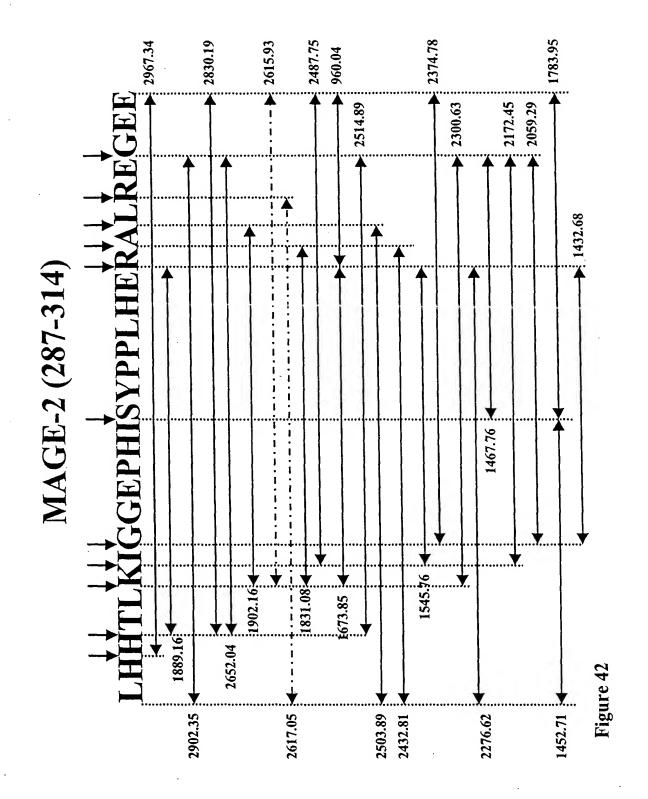
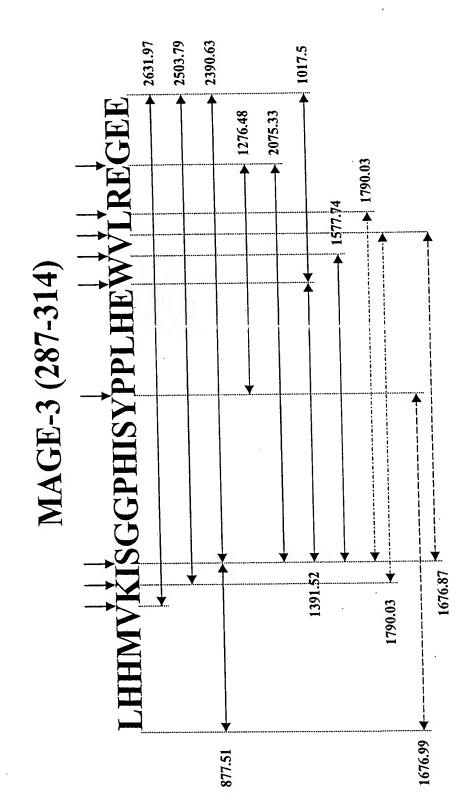


Figure 40







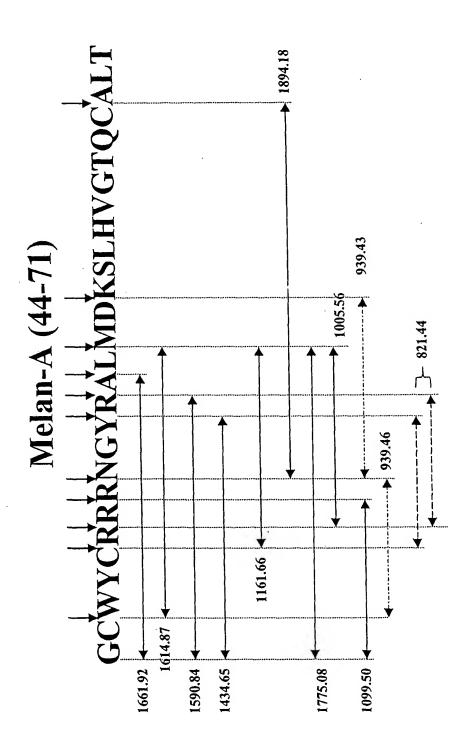


Figure 44

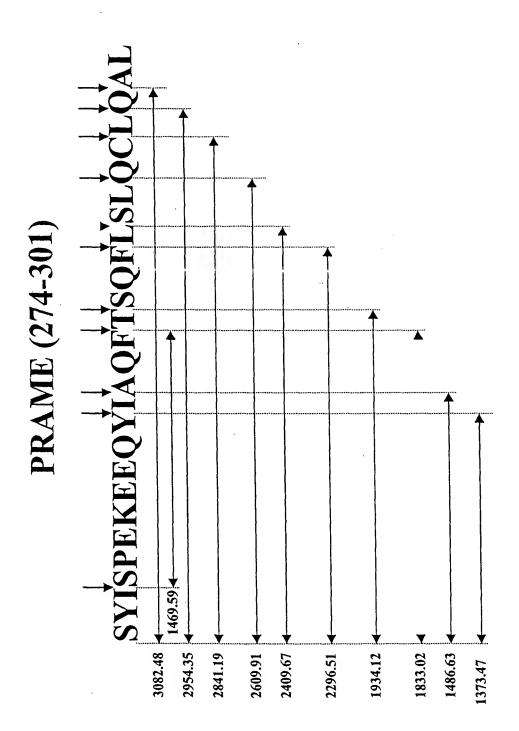
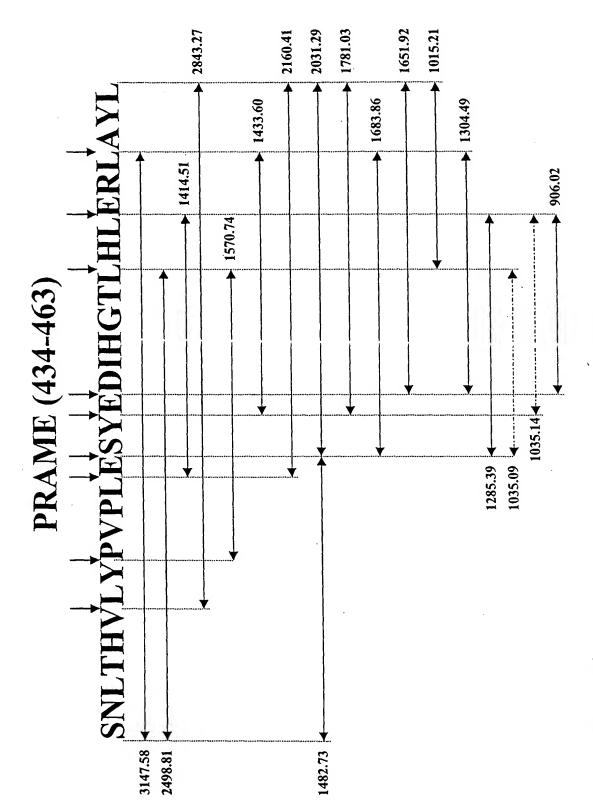


Figure 45



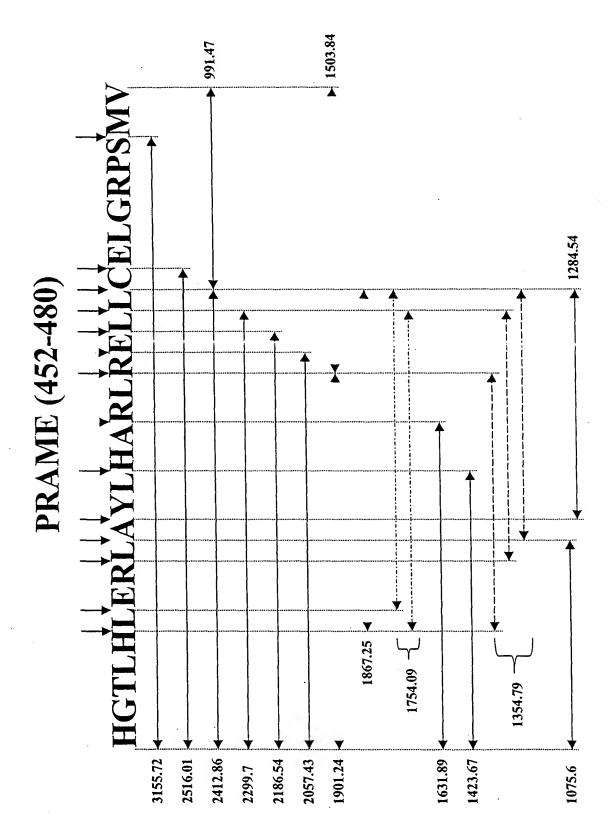
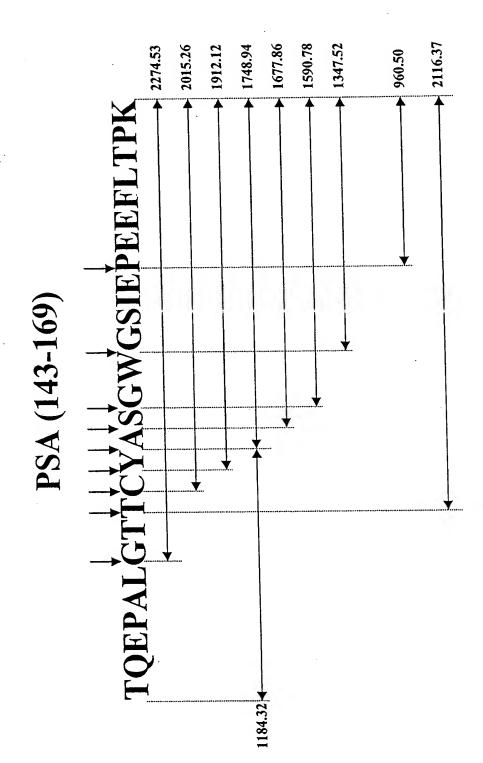


Figure 47



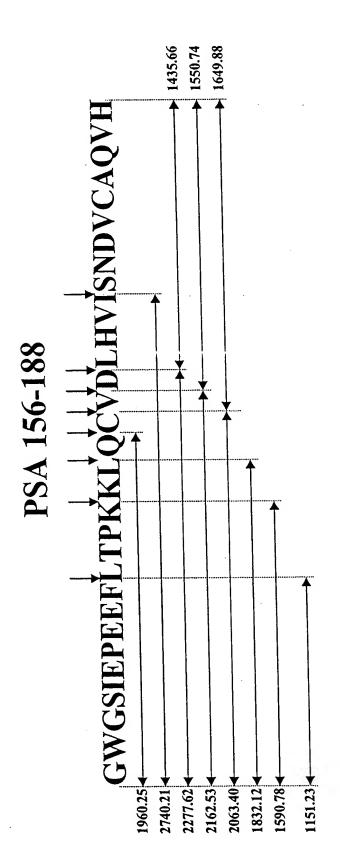
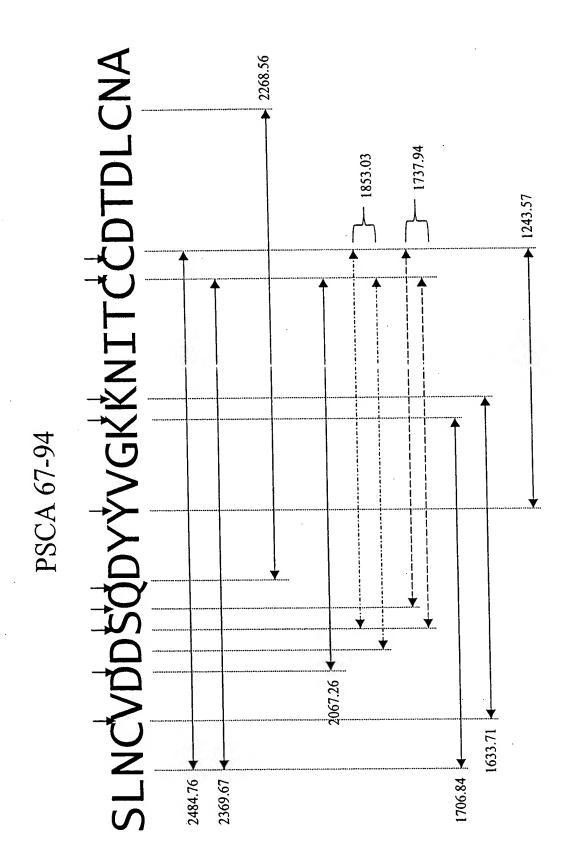


Figure 49



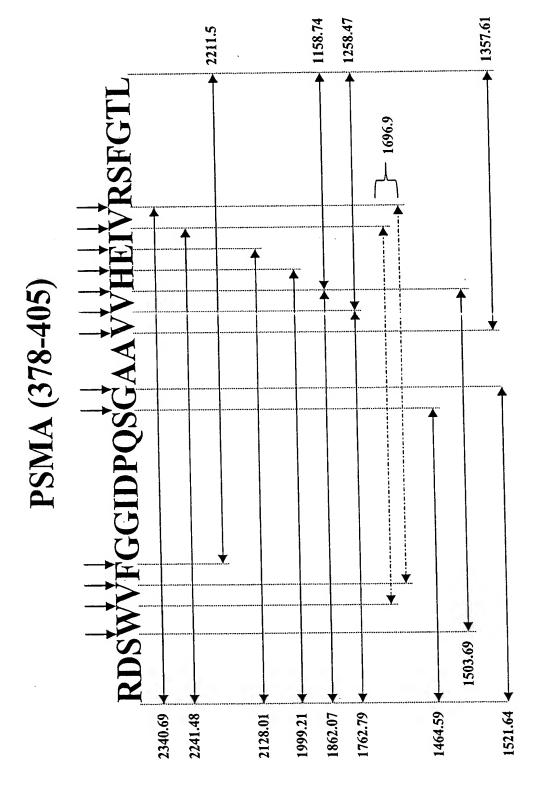


Figure 51

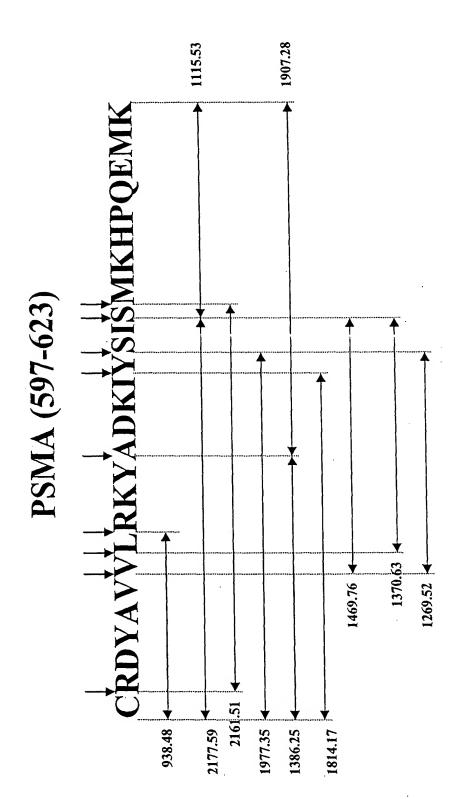
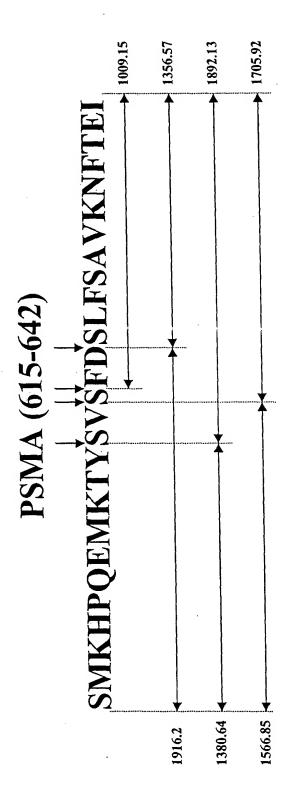


Figure 52



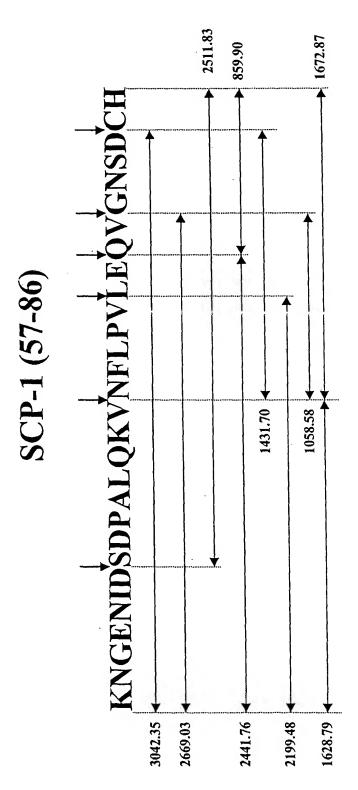


Figure 54

EPITOPE SEQUENCES
Simard et al.
nown Atty Docket: MANNK.032A Appl. No.: Unknown

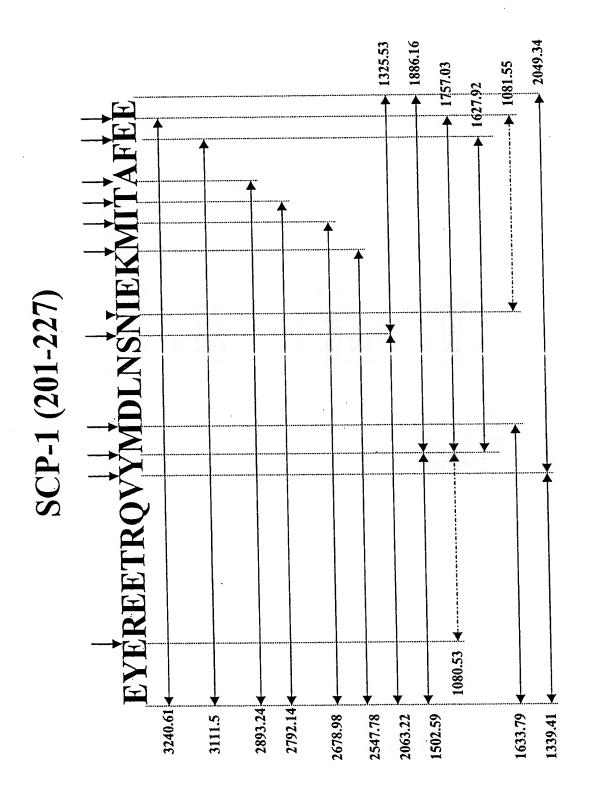


Figure 55

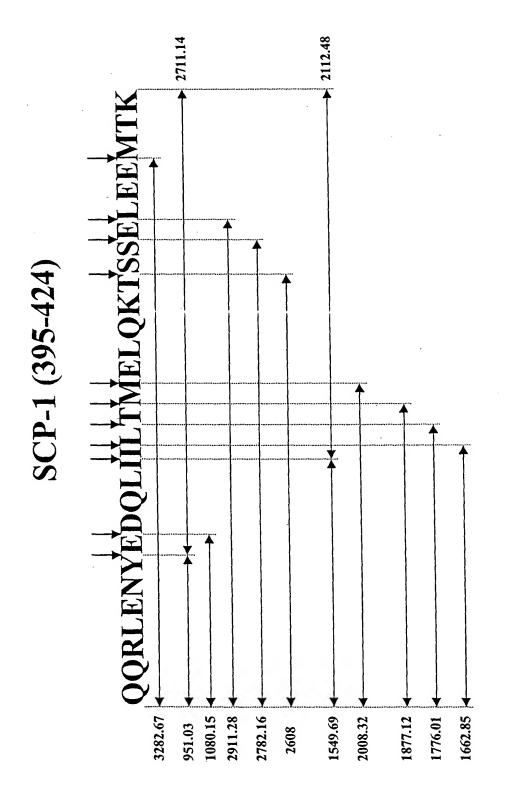


Figure 56

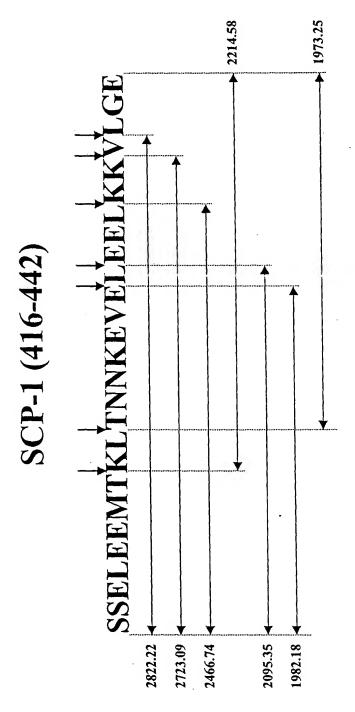


Figure 58

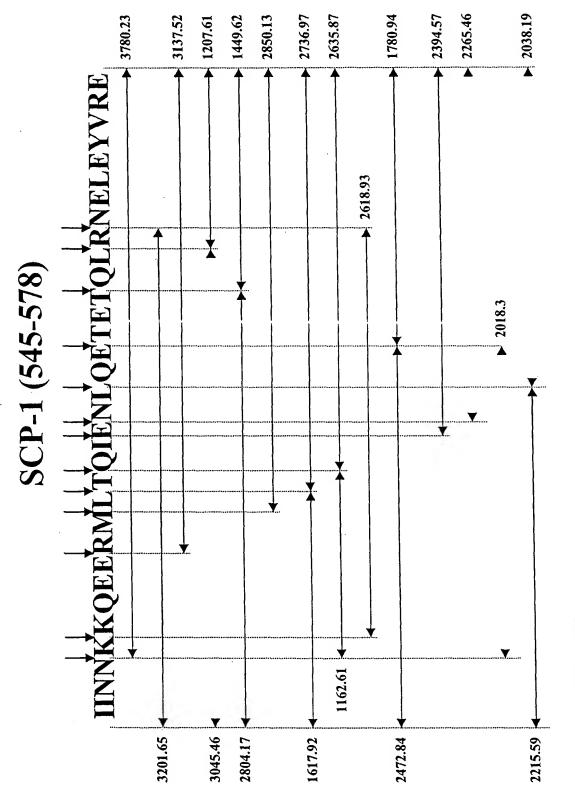
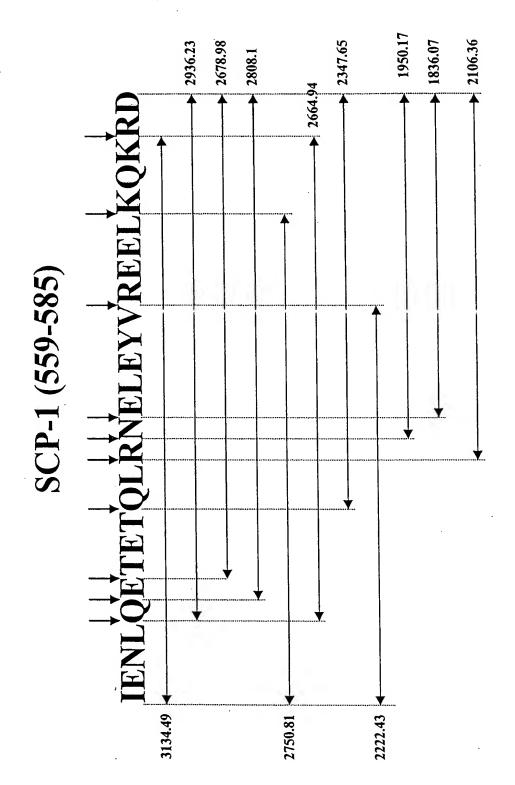
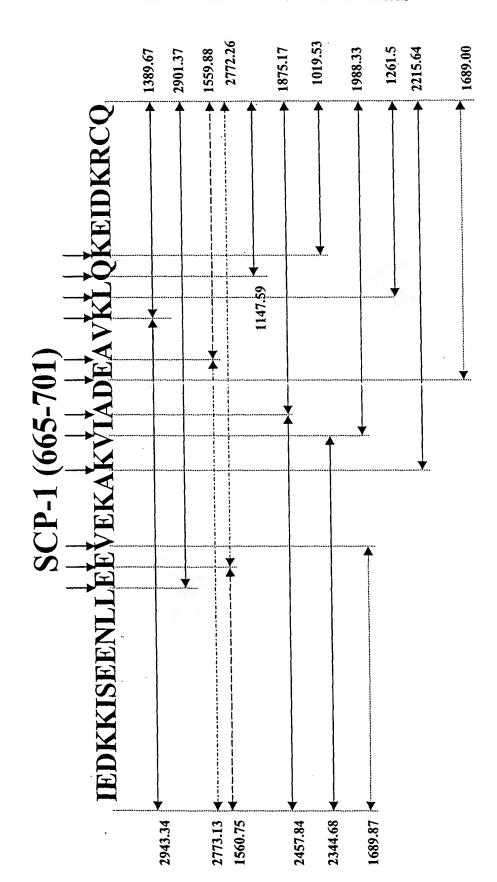


Figure 59





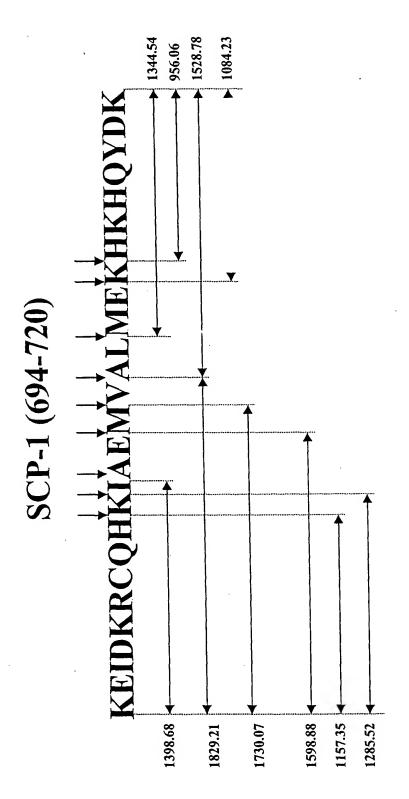
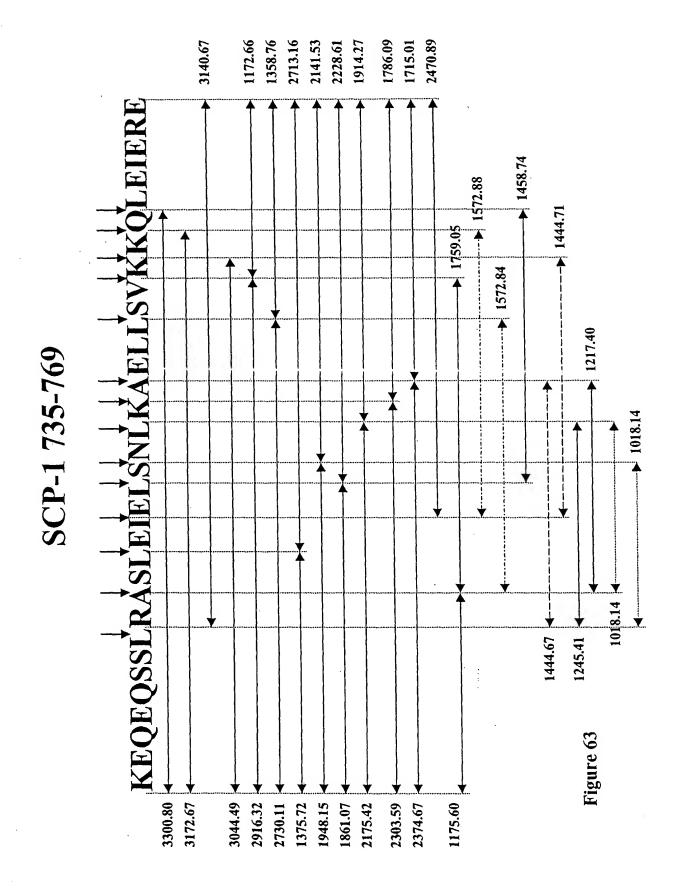
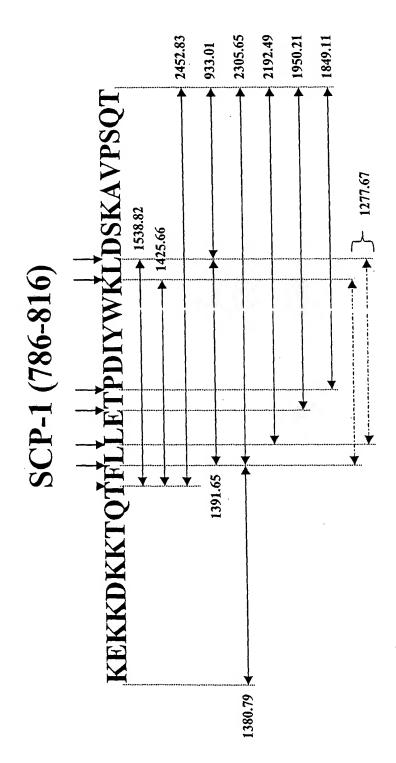


Figure 62

Atty Docket: MANNK.032A





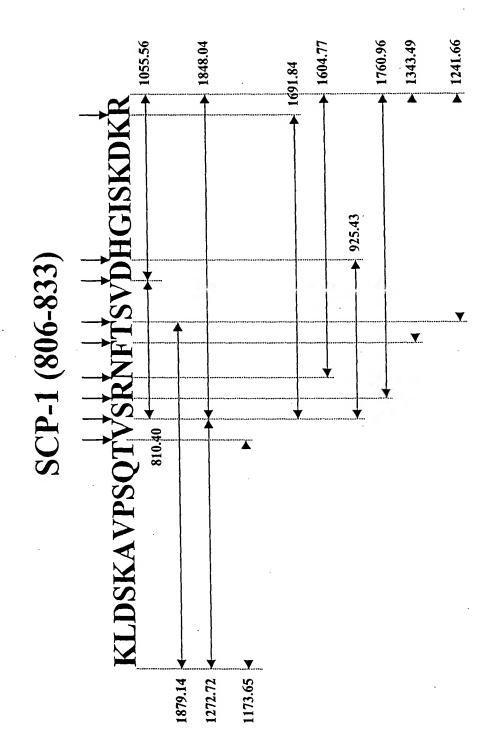


Figure 65

